



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name:	Silvestrol Reference Material
Chemical name:	Methyl (1R,2R,3S,3aR,8bS)-6-({(2S,3R,6R)-6-[(1R)-1,2-dihydroxyethyl]-3-methoxy-1,4-dioxan-2-yl}oxy)-1,8b-dihydroxy-8-methoxy-3a-(4-methoxyphenyl)-3-phenyl-2,3,3a,8b-tetrahydro-1H-benzo[b]cyclopenta[d]furan-2-carboxylate
CAS No:	697235-38-4
Chemical formula:	C ₃₄ H ₃₈ O ₁₃
Recommended use:	For R&D and analytical use only
Producer details:	Sarawak Biodiversity Centre KM20, Jalan Borneo Heights, Semengoh Locked Bag No. 3032, 93990 Kuching Sarawak, Malaysia Tel : (6)082-610610 Fax: (6)082-611535 Email: biosar@sbc.org.my
Emergency contact number:	(6)082-610610

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification:	Not a hazardous substance or mixture according to GHS
Hazard Pictogram:	None
Signal word:	None
Hazard statement:	None
Precautionary statement:	P281 Use personal protective equipment as required P261 Avoid breathing dust P262 Avoid contact with eyes, skin and clothing

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Chemical Formula	Molecular Weight	CAS No	Purity Value ± Expanded Uncertainty
Silvestrol Reference Material	C ₃₄ H ₃₈ O ₁₃	654.66	697235-38-4	94.6 ± 1.0 %

SECTION 4 : FIRST AID MEASURES

Inhalation:	If inhaled, move person into fresh air. If breathing is difficult, qualified personnel may give oxygen. If not breathing, give artificial respiration. Consult medical advice immediately.
Skin contact:	Immediately remove contaminated clothing and shoes under the emergency shower. Flush with plenty of water. Consult medical advice immediately.
Eye contact:	Remove any contact lenses, immediately hold eyelids apart and flush eyes thoroughly with running water for at least 15 minutes. Consult medical advice immediately.
Ingestion:	Ingestion is not considered as potential route of exposure. Wash out mouth with plenty of water. Do not induce vomiting. Consult medical advice immediately.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide fire extinguisher.
Specific hazard:	May emit irritant fumes under fire conditions.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective clothing.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear appropriate personal protective equipment. Avoid breathing vapors, mist, gas or dust. Ensure adequate ventilation. Evacuate personnel to safe area.
Environmental precautions:	Keep the product away from drains or water courses
Method for containment and clean up:	Avoid dry sweeping or other methods which raise dust. Vacuum or wet-sweep and keep into suitable closed container for disposal. Decontaminate the spill site with alcohol. Dispose of contaminated material according to Section 13.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid contact with skin, eyes and clothing. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.
Storage:	Keep containers tightly sealed in a dry, cool and well-ventilated place. Keep away from direct sunlight and sources of ignition. Recommended storage temperature: Store at 4°C for up to 12 months, or until the expiry date indicated on the certificate. Shipping at room temperature is less than 28 days.

SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION

Exposure guidelines:	Contains no substances with occupational exposure limit
Engineering measures:	Ensure adequate ventilation. Provide accessible safety shower and eye wash station.
Personal protective equipment:	<p>Respiratory protection: Respiratory protection is not required. Where protection from nuisance level of dust are desired, use type N95 (US) or type P1 (EN 143) dust mask.</p> <p>Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p> <p>Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).</p> <p>Skin and body protection: Choose appropriate body protection in relation to its type, concentration and amount of product and to specific workplace</p>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Colour:	White
Odour:	Odourless
pH:	No data available
Melting point:	138°C – 140°C
Boiling point:	800.8±65.0°C at 760 mmHg
Flash point:	252.4±27.8°C
Evaporation rate:	No data available
Flammability:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	Soluble in DMSO, MeOH and ACN
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Viscosity:	No data available

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No data available
Conditions to avoid:	No data available
Materials to avoid:	Strong acids/alkalis and strong oxidizing/reducing agents

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	Classified based on available data. For more details, see section 2
Skin corrosion/irritation:	Classified based on available data. For more details, see section 2
Serious eye damage/irritation:	Classified based on available data. For more details, see section 2
Respiratory or skin sensitization:	Classified based on available data. For more details, see section 2
Germ cell mutagenicity:	Classified based on available data. For more details, see section 2
Carcinogenicity:	<p>IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.</p> <p>NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.</p> <p>OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA</p>
Reproductive toxicity:	Classified based on available data. For more details, see section 2
Teratogenicity:	Classified based on available data. For more details, see section 2
Specific target organ toxicity-single exposure:	Classified based on available data. For more details, see section 2
Specific target organ toxicity-repeated exposure:	Classified based on available data. For more details, see section 2
Aspiration hazard:	Classified based on available data. For more details, see section 2
Additional information:	This information is based on our current knowledge as the chemical, physical and toxicological properties have not been completely investigated.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

Results of PBT and vPvB assessment:	No data available
Other adverse effects:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Dispose of in accordance with prevailing country, federal, state and local regulations
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SECTION 14: TRANSPORT INFORMATION

DOT (US):	This substance is considered to be non-hazardous for transport
ADR/RID:	This substance is considered to be non-hazardous for transport
IMDG:	This substance is considered to be non-hazardous for transport
IATA:	This substance is considered to be non-hazardous for transport

SECTION 15: REGULATORY INFORMATION

Occupational Safety and Health Act 1994 (OSHA 1994)
Occupational Safety & Health (Classification, Labeling, and Safety Data Sheet of Hazardous Chemicals) Regulation 2013
Occupational Safety & Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulation 2000
Industry Code of Practice on Chemical Classification and Hazard Communication 2013 (ICOP CCHC)

SECTION 16: OTHER INFORMATION

The above information is based on the present state of our knowledge but does not purport to be all inclusive and should be used only as a guideline. The product is for research use only and for experienced personnel. It must only be handled by qualified experienced scientists in appropriately equipped and authorized facilities. Users should make their own investigations to determine the suitability of the information for their particular purposes. Sarawak Biodiversity Centre shall not be held liable for any damage resulting from handling or from contact with the product.

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