



MATERIAL SAFETY DATA: HUMAN TOPOISOMERASE II DRUG SCREENING KIT

CATALOG NUMBER: TG1019

1. Product Identification

Human Topoisomerase II Drug Screening Kit is a purified bioassay kit for use in the identification of topoisomerase II activity (a protein that regulates tumor growth in cancer).

2. Hazard Identification

Material is non-hazardous, non-infectious, and non-toxic.

3. Composition

This Kit contains the following reagents in aqueous buffers:

- Crithidia DNA (kDNA) in TE buffer
- Linear kDNA marker in gel loading buffer
- Decatenated kDNA marker in gel loading buffer
- 10x Incomplete Topo II Assay Buffer A contains the following: 0.5M Tris-HCl (pH8.0), 1.5M NaCl, 0.1M MgCl₂, 5 mM dithiothreitol. 10% Sodium Dodecyl Sulfate
- 10x ATP Buffer B contains 20 mM ATP in water
- 10% Sodium dodecyl sulfate
- Gel Loading Dye
- 10x Proteinase K (0.5mg/ml)

This kit also contains Etoposide (VP16), a control/inhibitor of topoisomerase II in lyophilized form.

Chemical Name: 9-[(4,6-O-Ethylidene-β-D-glucopyranosyl)oxy]-5,8,- 8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)- furo[3',4':6,7] naphtho[2,3-d]-1,3-dioxol-6(5aH)-one
Molecular Formula: C₂₉H₃₂O₁₃

4. First Aid Measures

In case of contact with skin, wash immediately with soap and water. In case of contact with eyes, flush with water and seek medical advice if discomfort persists.

5. Fire Fighting Measures

Extinguishing media: water spray, carbon dioxide, dry chemical powder or foam as required.

Product Application and Disclaimer

This product is not licensed or approved for administration to humans or animals. It may be used with experimental animals only. The product is for in vitro research diagnostic studies only. The product is non-infectious and non-hazardous to human health. This information is based on present knowledge and does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. TopoGEN, Inc. shall not be held liable for product failure due to mishandling and incorrect storage by end user. TopoGEN's liability is limited to credit or product replacement.

6. Accidental Release Measures
Wear appropriate protective clothing. Absorb onto sand or vermiculite and place in closed container for disposal.

7. Storage and Handling
The products should be stored at 4 C. Products are stable for short periods at ambient temperature. Avoid multiple freeze/thaw cycles. Special requirements: heat sensitive. Avoid contact with eyes, skin, and clothing.

8. Exposure Controls and Personal Protection
Wear gloves and appropriate protective clothing to avoid contact with skin and eyes.

9. Physical and Chemical Properties
Aqueous liquids.

10. Stability and Reactivity
Stable. The possibility of reaction with other substances cannot be excluded.

11. Toxicological Information
Some constituents may cause skin or eye irritation.

12. Ecological Information
No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

13. Disposal Considerations
Dispose of in accordance with local rules and regulations.

14. Transport Information
Not subject to transport regulations.

15. Regulatory Information
Ingredients are not classified as dangerous or toxic according to US Classification. Harmful if swallowed. Products are for in-vitro use only and not certified for use with humans.

16. Other Information
The above information is believed to be correct but does not purport to be all-inclusive and shall only be used as a guide. TopoGEN, Inc. and its officers, employees, and agents shall not be held liable for any claims brought by third parties due to damage resulting from handling or contact with the above product.
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