

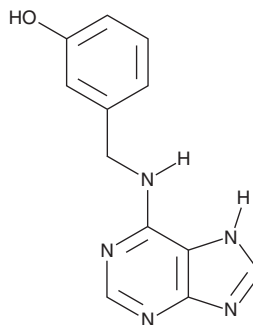
PRODUCT INFORMATION



meta-Topolin

Item No. 34122

CAS Registry No.: 75737-38-1
Formal Name: 3-[(9H-purin-6-ylamino)methyl]-phenol
Synonyms: 6-*m*-Hydroxybenzylaminopurine,
6-*meta*-Hydroxybenzylaminopurine,
m-Topolin
MF: C₁₂H₁₁N₅O
FW: 241.3
Purity: ≥98%
UV/Vis.: λ_{max}: 271 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

meta-Topolin is supplied as a solid. A stock solution may be made by dissolving the *meta*-topolin in the solvent of choice, which should be purged with an inert gas. *meta*-Topolin is soluble in organic solvents such as ethanol and dimethyl formamide. The solubility of *meta*-topolin in these solvents is approximately 30 and 10 mg/ml, respectively.

meta-Topolin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, *meta*-topolin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. *meta*-Topolin has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

meta-Topolin is a cytokinin that has been found in *Populus canadensis*.^{1,2} It increases root and shoot growth of *A. polyphylla* when used at concentrations ranging from 0.5 to 15 μM.² *meta*-Topolin (5 μM) also increases soybean mean callus yield.

References

1. Strnad, M., Hanuš, J., Vaněk, T., *et al.* *Meta*-topolin, a highly active aromatic cytokinin from poplar leaves (*Populus x canadensis* Moench., cv. Robusta). *Phytochemistry* **45**(2), 213-218 (2010).
2. Bairu, M.W., Stirk, W.A., Dolezal, K., *et al.* Optimizing the micropropagation protocol for the endangered *Aloe polyphylla*: Can *meta*-topolin and its derivatives serve as replacement for benzyladenine and zeatin? *Plant Cell Tiss. Organ Cult.* **90**, 15-23 (2007).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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