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- Trockeneiszuschlag
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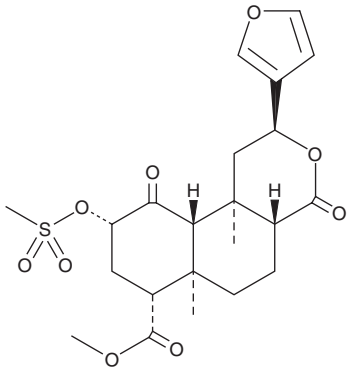
# PRODUCT INFORMATION

## Salvinorin B Mesylate

*Item No. 22244*

**CAS Registry No.:** 862073-79-8
**Formal Name:** (2S,4aR,6aR,7R,9S,10aS,10bR)-2-(3-furanyl) dodecahydro-6a,10b-dimethyl-9-[(methylsulfonyl) oxy]-4,10-dioxo-2H-naphtho[2,1-c]pyran-7-carboxylic acid, methyl ester
**Synonyms:** Divinorin B Mesylate, Mesyl Sal B, Sal B Mesylate
**MF:** $C_{22}H_{28}O_9S$
**FW:** 468.5
**Purity:** ≥95%
**UV/Vis.:** $\lambda_{max}$: 205 nm
**Supplied as:** A crystalline solid
**Storage:** -20°C
**Stability:** ≥2 years



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

### Laboratory Procedures

Salvinorin B mesylate is supplied as a crystalline solid. A stock solution may be made by dissolving the salvinorin B mesylate in the solvent of choice, which should be purged with an inert gas. Salvinorin B mesylate is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of salvinorin B mesylate in these solvents is approximately 20 mg/ml. Salvinorin B mesylate is slightly soluble in ethanol.

Salvinorin B mesylate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, salvinorin B mesylate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Salvinorin B mesylate has a solubility of approximately 0.125 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Salvinorin B mesylate (Mesyl Sal B) is a selective κ-opioid receptor agonist that is more potent than salvinorin A (Item No. 11487) in CHO cells transfected with the human κ-opioid receptor ($EC_{50}$s = 30 and 40 nM, respectively).[1,2] It is a mesylated version of salvinorin B (Item No. 11488) and is highly selective for κ-opioid receptors over μ- and δ-opioid receptors.[1] *In vitro*, it increases dopamine uptake *via* the dopamine transporter (DAT) in an ERK1/2-dependent manner but does not alter expression of DAT on the cell membrane.[3] In rats, it increases the pain threshold and blocks reinstatement of cocaine drug-seeking.

### References


1. Harding, W.W., Tidgewell, K., Byrd, N., *et al.* Neoclerodane diterpenes as a novel scaffold for μ opioid receptor ligands. *J. Med. Chem.* **48(15)**, 4765-4771 (2005).
2. Tidgewell, K., Harding, W.W., Lozama, A., *et al.* Synthesis of salvinorin A analogues as opioid receptor probes. *J. Nat. Prod.* **69**, 914-918 (2006).
3. Simonson, B., Morani, A.S., Ewald, A.W.M., *et al.* Pharmacology and anti-addiction effects of the novel κ opioid receptor agonist Mesyl Sal B, a potent and long-acting analogue of salvinorin A. *Br. J. Pharmacol.* **172(2)**, 515-531 (2015).





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