

## 6'-Iodoresiniferatoxin (6'-IRTX)

Cat. #: I-805

Current Lot #: I805IF0105, I805IF011

**Origin:** Iodinated form of Resiniferatoxin, produced by the Moroccan cactus *Euphorbia resinifera*.

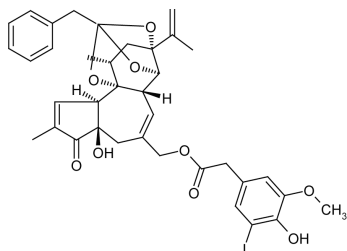
**Source description:** Natural.

**M.W.:** 754.62 daltons.

**Purity:** >98%.

**Effective concentration:** 50 nM - 1  $\mu$ M.

**Structure:**



**Chemical name:** Resiniferonyl 20-(4-hydroxy-2-iodo-5-methoxyphenylacetate 9,13,14-ortho(phenylacetate).

**Molecular formula:** C<sub>37</sub>H<sub>39</sub>O<sub>9</sub>.

**CAS No.:** Not determined.

**Activity:** 6'-Iodoresiniferatoxin is a partial agonist of the TRPV1 (Vanilloid/Capsaicin receptor 1) channel<sup>1</sup>.

**References:**

1. McDonnell, M.E. *et al.* (2002) *Bioorg. Med. Chem. Lett.* **12**, 1189.

**Sizes:** 0.5 mg, 5 x 0.5 mg, or 1 mg lyophilized powder.

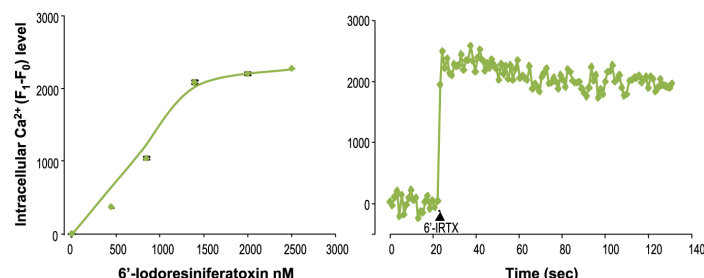
**Storage before reconstitution:** Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

**Reconstitution:** DMSO or Ethanol. Centrifuge all product preparations before use (10000 x g 5 min).

**Storage and stability after reconstitution:** Up to two week at 4°C or six months at -20°C.

**Protect from light.**

**Bioassay:** 6'-Iodoresiniferatoxin induces Ca<sup>2+</sup> influx via activation of TRPV1 expressed in HEK293 cells.



Cells were loaded with 2 mM fluo-3 AM and then stimulated with 6'-Iodoresiniferatoxin (#I-805). The left panel shows the intracellular Ca<sup>2+</sup> levels 10 sec post stimulation with different concentrations of 6'-Iodoresiniferatoxin (ED<sub>50</sub> = 0.8  $\mu$ M) and plotted against drug concentration. The right panel shows intracellular Ca<sup>2+</sup> levels before and after stimulation of cells with 2.5  $\mu$ M 6'-Iodoresiniferatoxin.

For research purposes only, not for human use.  
Last Update: February, 2010.