



Ginsenoside Rf

Catalog No: tcsc3841

卫	Available Sizes
Size	: 5mg
Size	: 10mg
	Specifications
CAS 5228	No: 6-58-5
	iula: 72 ⁰ 14
	way: brane Transporter/Ion Channel
Targ Calci	et: um Channel
Puri t > 98%	ty / Grade: %
Solu	bility:

Alternative Names:

Panaxoside Rf

10 mM in DMSO

Observed Molecular Weight:

801.01

Product Description

Ginsenoside Rf is a trace component of ginseng root. Ginsenoside Rf inhibits **N-type Ca²⁺ channel**.



IC50 & Target: N-type Ca²⁺ channel^[1]

In Vitro: Ginsenoside Rf is a saponin, which is present in only trace amounts within ginseng. At saturating concentrations, Ginsenoside Rf rapidly and reversibly inhibits N-type, and other high-threshold, Ca^{2+} channels in rat sensory neurons to the same degree as a maximal dose of opioids. The effect is dose-dependent (half-maximal inhibition: 40 μ M) and it is virtually eliminated by pretreatment of the neurons with pertussis toxin, an inhibitor of G(o) and Gi GTP-binding proteins. Ginsenoside Rf also inhibits Ca^{2+} channels in the hybrid F-11 cell line^[1].

In **Vivo:** Since inhibition of Ca^{2+} channels in sensory neurons contributes to antinociception by opioids, analgesic actions of Ginsenoside Rf are tested. Dose-dependent antinociception is found by systemic administration of Ginsenoside Rf in mice using two separate assays of tonic pain: in the acetic acid abdominal constriction test, the ED_{50} is 56 ± 9 mg/kg, a concentration similar to those reported for aspirin and acetaminophen in the same assay; in the tonic phase of the biphasic formalin test, the ED_{50} is 129 ± 32 mg/kg^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!