Almotriptan malate

Cat. No.: HY-B0383

CAS No.: 181183-52-8

Molecular Formula: $C_{21}H_{31}N_3O_7S$

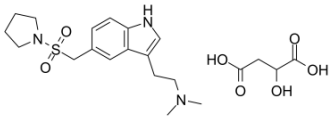
Molecular Weight: 469.55

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Almotriptan Malate is a 5-HT1B/1D-receptor agonist used to treat migraine.IC50:Target: 5-hydroxytryptamine1B/1D (5-HT1B/1D) ReceptorAlmotriptan Malate is a selective 5-hydroxytryptamine1B/1D (5-HT1B/1D) receptor agonist, used for the treatment of Migraine attacks in adults. Almotriptan showed low nanomolar affinity for the 5-HT(1B) and 5-HT(1D) receptors in several species, including the human, while affinity for 5-HT receptors other than 5-HT(1B/1D) was clearly less. Almotriptan did not exhibit significant affinity for several non-5-HT receptors studied up to 100 microM. Almotriptan inhibited forskolin-stimulated cyclic AMP accumulation in HeLa cells transfected with 5-HT(1B) or 5-HT(1D) human receptors [1]. Almotriptan had a mild antiemetic effect and a slight, transient diuretic effect in dogs, although the latter effect is probably of no clinical relevance. In addition, no effect on the respiratory system of conscious guinea pigs was observed following almotriptan treatment. These results indicate that almotriptan has a favourable safety profile with respect to the central nervous, renal and respiratory systems [2].

IC_{50} & Target	5-HT_{1B} Receptor	5-HT_{1D} Receptor

REFERENCES

[1]. Bou J , et al. Pharmacological characterization of almotriptan: an indolic 5-HT receptor agonist for the treatment of migraine. Eur J Pharmacol, 2000. 410(1): p. 33-41.

[2]. Gras J, et al. Safety profile of almotriptan, a new antimigraine agent. Effects on central nervous system, renal function and respiratory dynamics. Arzneimittelforschung, 2001. 51(9): p. 726-32.

Caution: Product has not been fully validated for medical applications. For research use only.

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