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**Product Data Sheet**

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Product Name: AL 34662

Cat. No.: GC11556

**Chemical Properties**

Cas. No. 210580-75-9

Chemical Name 1-[(2S)-2-aminopropyl]-1H-indazol-6-ol

SMILES OC1=CC=C(C=NN2C[C@H](N)C)C2=C1Formula  $C_{10}H_{13}N_3O$ 

M.Wt 191.2

Solubility  $\leq 1\text{mg/ml}$  in ethanol;  $10\text{mg/ml}$  in DMSO;  $10\text{mg/ml}$  in dimethyl formamideStorage Store at -  
20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

IC50: 0.8-1.5 nM for rat and human 5-HT2 receptor

AL 34662 is a potent 5-HT2 receptor agonist.

SEROTONIN (5-hydroxytryptamine; 5-HT) is a major neurotransmitter in the central nervous system (CNS) of mammals and has well-documented physiological functions in numerous cells, tissues, and organs.

In vitro: AL-34662 exhibited a high affinity for the rat and human 5-HT2 receptor and for cloned human 5-HT2A-C receptors. AL-34662 stimulated phosphoinositide turnover in human ciliary muscle and in human trabecular meshwork cells. AL-34662 also mobilized intracellular  $Ca^{2+}$  in h-CM and h-TM cells, being a full agonist like 5-HT itself. AL-34662's effects in the h-CM cells were potently antagonized by 5-HT2A-antagonist M-100907, but weakly by 5-HT2B-antagonist, 5-HT2B/C- antagonist and 5-HT2C antagonist. Moreover, it

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was found that the (R)-enantiomer (AL-34707) and the racemate (AL-34497) were less potent and/or efficacious than AL-34662 in all of these assays [1].

In vivo: AL-34662 caused relatively minimal ocular discomfort and hyperemia in rabbit and guinea pig eyes. It efficaciously lowered intraocular pressure in the conscious ocular hypertensive monkey eyes [1].

Clinical trial: So far, no clinical study has been conducted.

Reference:

[1] Sharif NA, McLaughlin MA, Kelly CR. AL-34662: a potent, selective, and efficacious ocular hypotensive serotonin-2 receptor agonist. J Ocul Pharmacol Ther. 2007 Feb;23(1):1-13.

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