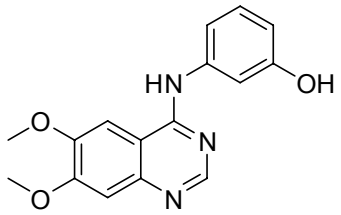
3-[(6,7-Dimethoxy-4-quinazolinyl)amino]-phenol (Janex 3; WHI-P180) - a potent inhibitor of IgE-mediated mast cell responses to allergens in vitro and in vivo. Also inhibits cyclin-dependent kinase 2 (CDK2; IC_{50} = 1µM) by blocking the ATP site



Chemical Formula: $C_{16}H_{15}N_3O_3$
Molecular Weight: 297.31

Ref. 1: Shewchuk et al. **Binding mode of the 4-anilinoquinazoline class of protein kinase inhibitor: X-ray crystallographic studies of 4-anilinoquinazolines bound to cyclin-dependent kinase 2 and p38 kinase.** *Journal of Medicinal Chemistry* (**2000**), *43*, 133-138

4-Anilinoquinazolines represent an important class of protein kinase inhibitor. Modes of binding for two members of this inhibitor class were determined by x-ray of one inhibitor (4-[3-hydroxyanilino]-6,7-dimethoxyquinazoline) in complex with cyclin-dependent kinase 2 (CDK2) and the other (4-[3-methylsulfanylanilino]-6,7-dimethoxyquinazoline) in complex with p38 kinase.

Ref. 2: Chen et al. **Pharmacokinetics and biologic activity of the novel mast cell inhibitor, 4-(3'-hydroxyphenyl)-amino-6,7-dimethoxyquinazoline in mice.** *Pharmaceutical Research* (**1999**), *16*, 117-122

The purpose of the present study was to examine the pharmacodynamic and pharmacokinetic features of the novel mast cell inhibitor 4-(3'-Hydroxyphenyl)-amino-6,7-dimethoxyquinazoline (**WHI-P180**) in mice. Notably, **WHI-P180**, when administered in two consecutive nontoxic i.p. bolus doses of 25 mg/kg, inhibited IgE/antigen-induced vascular hyperpermeability in a well-characterized murine model of passive cutaneous anaphylaxis. **WHI-P180** is an active inhibitor of IgE-mediated mast cell responses in vitro and in vivo. Further preclinical characterization of **WHI-P180** may improve the efficacy of **WHI-P180** in vivo and provide the basis for design of effective treatment and prevention programs for mast cell- mediated allergic reactions.

OTAVA catalog no.	CAS RN	Amount	Delivery time	Purity
7015070102	211555-08-7	**1 mg** **5 mg** **25 mg** **1 gram**	**In-stock** **In-stock** **In-stock** **In-stock**	≥ 95% by HPLC & ^{1}H NMR