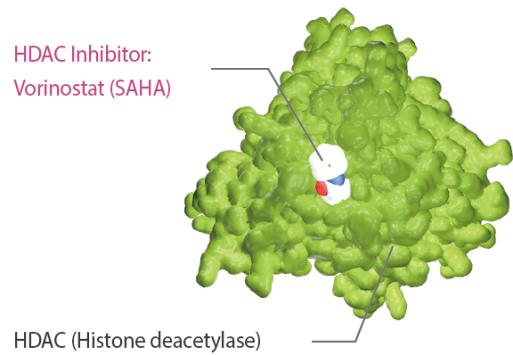


Melatonin Receptor



action in the retina is believed to affect several light-dependent functions, including phagocytosis and photopigment disc shedding.

Melatonin Receptor is a G protein-coupled receptor (GPCR) which binds melatonin. Three types of melatonin receptor have been cloned. The MT1 and MT2 receptor subtypes are present in humans and other mammals, while an additional melatonin receptor subtype MT3 has been identified in amphibia and birds. The MT1 subtype's expression in the pars tuberalis of the pituitary gland and suprachiasmatic nuclei of the hypothalamus is indicative of melatonin's circadian and reproductive functional involvement. The MT2 subtype's expression in the retina is suggestive of melatonin's effect on the mammalian retina occurring through this receptor. Research suggests that melatonin acts to inhibit the Ca^{2+} -dependent release of dopamine. Melatonin's

Melatonin Receptor Inhibitors & Modulators

Melatonin

(N-Acetyl-5-methoxytryptamine)

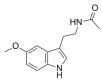
Cat. No.: HY-B0075

Bioactivity: Melatonin is a hormone made by the pineal gland that can activates **melatonin receptor**. Melatonin plays a role in sleep and possesses important antioxidative and anti-inflammatory properties.

Purity: 98.95%

Clinical Data: Launched

Size: 10mM x 1mL in DMSO,
1 g, 5 g



Ramelteon metabolite M-II

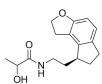
Cat. No.: HY-103005

Bioactivity: Ramelteon metabolite M-II is the major metabolite of Ramelteon, with IC_{50} s of 208 pM, 1470 pM for human melatonin receptors (MT_1 or MT_2). Ramelteon is a selective melatonin agonist.

Purity: >98%

Clinical Data: No Development Reported

Size: 250 mg, 500 mg



Ramelteon

(TAK-375)

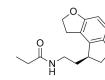
Cat. No.: HY-A0014

Bioactivity: Ramelteon is a highly potent and selective **melatonin receptor agonist** with K_i values of 14 and 112 pM for human melatonin1 and melatonin2.

Purity: 99.92%

Clinical Data: Launched

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg, 500 mg



Tasimelteon

(BMS-214778; VEC-162)

Cat. No.: HY-14803

Bioactivity: Tasimelteon is a melatonin MT1 and MT2 receptor agonist.

Purity: 99.58%

Clinical Data: Launched

Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg

