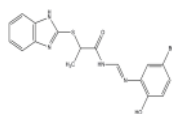


**PRODUCT: KH7****ALTERNATE NAME:** 2-(1H-benzimidazol-2-ylthio)-2-[(5-bromo-2-hydroxyphenyl)methylene]hydrazide, propanoic acid**CATALOG #:** 2350-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>17</sub>H<sub>15</sub>BrN<sub>4</sub>O<sub>2</sub>S**MOLECULAR WEIGHT:** 419.30**CAS NUMBER:** 330676-02-3**APPEARANCE:** White solid**SOLUBILITY:** DMSO (~40 mg/ml)**PURITY:** ≥98%**STORAGE:** At -20° C. Protect from air and moisture**DESCRIPTION:** A selective inhibitor of soluble adenylyl cyclase (sAC) (IC<sub>50</sub> = 3-10 μM in vivo). Displays little effect on transmembrane adenylyl cyclases. KH7 is not active against sAC in the presence of detergents. At concentrations above 50 μM, KH7 exhibits non-specific membrane disruption effects when used on cells.**REFERENCE:** Kumar, S., *et al.* (2009). *J. Biol. Chem.* **284**, 14760-14768**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**USAGE:** ***FOR RESEARCH CH USE ONLY! Not to be used in humans***