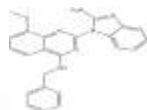


PRODUCT: ML-240**ALTERNATE NAME:** 2-(2-Amino-1*H*-benzimidazole-1-yl)-8-methoxy-*N*-(phenylmethyl)-4-quinazolinamine**CATALOG #:** B1142-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₃H₂₀N₆O**MOLECULAR WEIGHT:** 396.44**CAS NUMBER:** 1346527-98-7**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>5 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light.**DESCRIPTION:** ML-240 is an ATP-competitive inhibitor of the D2 domain of the p97 ATPase (IC₅₀ = 110 nM). It disrupts the endoplasmic reticulum-associated degradation and autophagy pathways, preventing the degradation of p97-dependent proteasome substrates (IC₅₀ = 0.9 μM) and causing accumulation of ubiquitin conjugates in nuclear membrane and cytosolic compartments at 5-10 μM. ML-240 has also been shown to block proliferation of HCT15 and SW403 colon cancer cell lines (GI₅₀s = 0.76 and 0.5 μM, respectively) and to rapidly mobilize caspase-3 and -7, inducing apoptosis.**REFERENCES:** Chou, T.F., *et al.* (2013). *ChemMedChem* **8**, 297-312.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**CB5083 (**B1032**)DBeQ (**1858**)Eeyarestatin 1 (**9602**)MDBN (**2033**)ML241 (**2697**)NMS-873 (**9600**)**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**