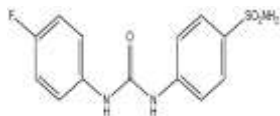


**PRODUCT: U-104****ALTERNATE NAME:** 1-(4-fluorophenyl)-3-(4-sulfamoylphenyl)urea; NSC-213841**CATALOG #:** 9631-5, 25**AMOUNT:** 5 mg, 25 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>13</sub>H<sub>12</sub>FN<sub>3</sub>O<sub>3</sub>S**MOLECULAR WEIGHT:** 309.32**CAS#:** 178606-66-1**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>25 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** U-104 is a ureido-sulfonamide inhibitor of transmembrane carbonic anhydrase IX (CAIX) (K<sub>i</sub> = 45.1 nM) and XII (CAXII) (K<sub>i</sub> = 4.5 nM). It displays weaker affinity for the cytosolic isoforms, CAI and CAII (K<sub>i,s</sub> = 5.08 and 9.64 μM, respectively). U-104 associates with CAIX/CAXII only under hypoxic conditions *in vivo*, reducing extracellular acidity and resulting in significant inhibition of tumor growth and metastasis in experimental models.**REFERENCE:** Lou, Y., *et al.* (2011). *Cancer Res.* **71**, 3364-3376.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Carbonic anhydrase-3, human recombinant (**7833-10, 50**)Human CellExp™ Carbonic anhydrase 10/CA10, human recombinant (**7485-10**)Human CellExp™ Carbonic anhydrase 2/CA2, human recombinant (**7479-10,50**)Human CellExp™ Carbonic anhydrase 4/CA4, human recombinant (**7484-10**)Human CellExp™ Carbonic anhydrase 9/CA9, human recombinant (**7478-10**)Carbonic anhydrase-2 Human recombinant (**6390-100**)**USAGE:** FOR RESEARCH USE ONLY! Not to be used in humans!