

Citrulline-specific Probe-Rhodamine Biochemical

Citrulline-specific Probe-Rhodamine

CATALOG #
AAA227110

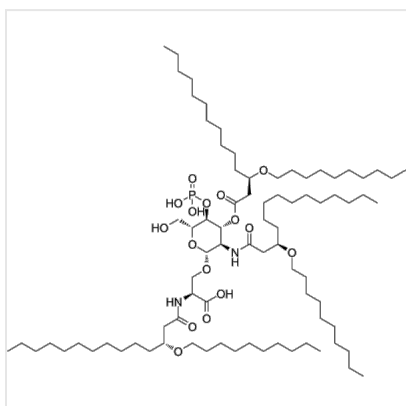
PRODUCT SYNONYMS

Citrulline-specific Probe-Rhodamine; CRX-601; Citrulline-specific Probe-Rhodamine biochemical

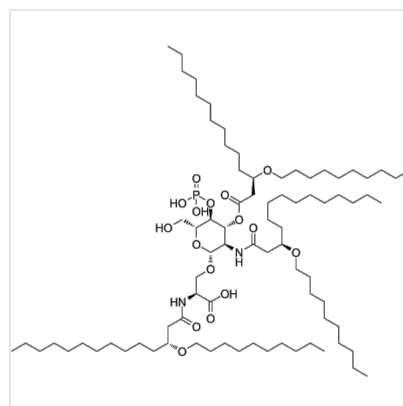
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	DMF: 1 mg/mL Acetonitrile:H ₂ O (2:1): 1 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
GSK1795091, CAS 1233589-81-5



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ADDITIONAL INFORMATION

Related Product Information for Citrulline-specific Probe-Rhodamine biochemical	Protein arginine deiminases (PADs) catalyze the posttranslational modification of arginine residues on proteins to form citrulline, which plays a large role in regulating gene expression. Abnormally high PAD activity has been observed in a host of human diseases. Citrulline-specific probe-rhodamine is a highly sensitive, rhodamine phenylglyoxal-based fluorophore that specifically detects protein citrullination via a chemoselective reaction between glyoxal and citrulline. This chemical probe (comprised of a single isomer) is capable of reacting with any citrulline-containing protein and can be analyzed with fluorescent imaging (excitation 532 nm; emission 580 nm). When added at 100 uM for 30 minutes at acidic pH, this probe has a reported limit of detection of ~10 ng for citrullinated histone H3 and ~1 ng for autodeiminated PAD4.
References	- Hug BA, et al. Safety, Pharmacokinetics, and Pharmacodynamics of the TLR4 Agonist GSK1795091 in Healthy Individuals: Results from a Randomized, Double-blind, Placebo-controlled, Ascending Dose Study. Clin Ther. 2020;42(8):1519-1534.e33. - Maroof A, et al. Intranasal vaccination promotes detrimental Th17-mediated immunity against influenza infection. PLoS Pathog. 2014;10(1):e1003875.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/citrulline-specific-probe-rhodamine/227110>