PRODUCT: MCC950 (Free base)

RELATED PRODUCTS:

ALTERNATE NAME: B-(2-oxo-2H-1-benzopyran-7-yl)-boronic acid; CBA

CATALOG #: B1031-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:

MOLECULAR FORMULA: $C_9H_7BO_4$

MOLECULAR WEIGHT: 189.96

CAS NUMBER: 1357078-03-5

APPEARANCE: Crystalline solid

SOLUBILITY: DMSO (~ 3mg/ml)

PURITY: ≥98%

STORAGE: Store at -20℃. Protect from air and moisture

DESCRIPTION: Coumarin boronic acid (CBA) is a fluorescent probe useful for the detection of peroxynitrite, hypochlorous acid, and hydrogen peroxide. It reacts directly and rapidly with peroxynitrite at a much faster rate (k = 1.1 μM/s) than hydrogen peroxide (k =1.5 M/s) and moderately faster rate than hypochlorous acid. Peroxynitrite oxidizes CBA stoichiometrically at a 1:1 ratio into a fluorescent product that can be examined at an excitation of 332 nm and emission > 400 nm

REFERENCES:

Zielonka, J., *et al.* (2012). *J. Biol. Chem.* **287,** 2984-2995

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***

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