



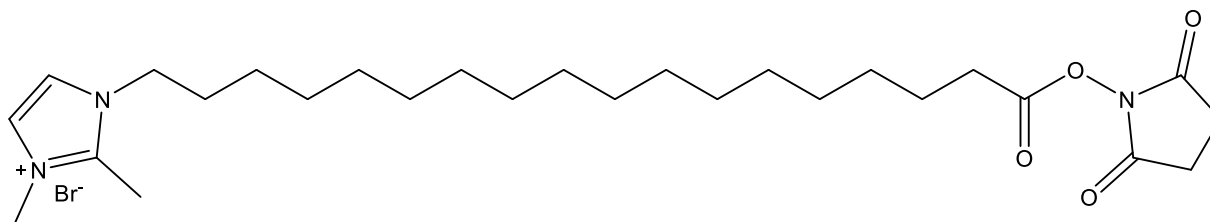
Catalog # 10-4406

CAIF

CAS# N/A

1-(18-((2,5-Dioxopyrrolidin-1-yl)oxy)-2,3-dimethyl-1H-imidazol-3-ium bromide

Lot # FBA11022



CAIF is a covalent allosteric inhibitor of fucosyltransferase 8 (FUT8; $IC_{50} = 5.7 \mu M$). Selective over FUT3 and FUT4. FUT8 is involved in tumor invasion, metastasis, and immune evasion as well as antitumor immunity and drug resistance. It displayed minimal cytotoxicity and displayed efficacy in inhibiting core fucosylation in multiple cancer cell lines. CAIF also suppressed cancer cell migration and invasion in multiple tumor models.

- 1) Jiang *et al.* (2026) *Exploiting human fucosyltransferase 8 allostery with a covalent inhibitor for core fucosylation suppression*; Nat. Commun. **17** 2607

PHYSICAL DATA

Molecular Weight:	556.59
Molecular Formula:	$C_{27}H_{46}BrN_3O_4$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (>100 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in anhydrous DMSO may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com