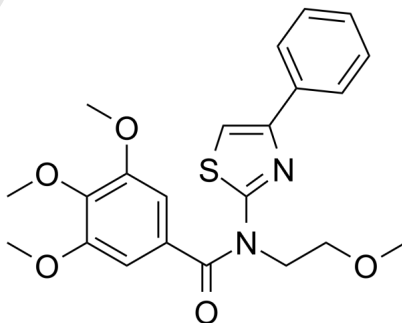


## Certificate of Analysis

Catalog Number	BP16004
Product Name	Eact

## Physical and Chemical Properties

CAS No.	461000-66-8
Chemical Formula	C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>5</sub> S
Molecular Weight	428.5
Solubility	DMSO: 50 mg/mL (116.69 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	Eact is a selective and potent TMEM16A activator. It directly activates the TRPV1 channels in sensory nociceptors. Which also produces itch, acute nociception and thermal hypersensitivity.
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In vitro	Eact activates membrane currents in mTRPV1-expressing HEK293T cells in a concentration-dependent manner (EC50: $11.6 \pm 2.5 \mu\text{M}$ ). Eact induces both itch-and pain- related behaviours in a TRPV1-dependent manner. TMEM16A activator Eact activates both native and recombinant TRPV1 channels.
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## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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