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DATASHEET

JF-NP-26 (Caged-Raseglurant)

Product overview

Name JF-NP-26 (Caged-Raseglurant)

Cat No HB6127 Biological action NAM Purity >98%

Description Novel, inactive photocaged derivative of raseglurant which can be uncaged with violet light. Shows

light-dependent analgesic activity in vivo.

Biological Data

Biological description

JF-NP-26 (Caged-Raseglurant) is a novel, inactive photocaged derivative of raseglurant / ADX-10059 (the mGlu5 receptor negative allosteric modulator (NAM)).

JF-NP-26 (Caged-Raseglurant) can be illuminated and uncaged by violet light (405 nM), to release raseglurant with spatial and temporal precision to allow local modulation of mGlu5 receptors. Unlike other caged compounds, JF-NP-26 can be uncaged by light within the visible spectrum which is particularly valuable for translation studies as opposed to UV light as visible spectrum light does not damage brain tissue.

JF-NP-26 (Caged-Raseglurant) is active *in vivo*, can be administered systemically and activated by LED-based illumination to induce JF-NP-26-mediated, light-dependent analgesia in both neuropathic and acute/tonic inflammatory pain models. No liver toxicity was observed in JF-NP-26 treatments used in tested pain models.

Recently shown (2022) that light-induced activation of JF-NP-26 in the ventrobasal thalamus causes rapid analgesia in a mouse model of breakthrough cancer pain (BTcP).

Solubility & Handling

Solubility overview Storage instructions Storage of solutions

Shipping Conditions

Handling

Important

Soluble in DMSO (100mM)

-20°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

This compound is light sensitive; exposure to light may affect compound performance. We therefore

recommend storing the material in the dark and protecting from light.

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Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

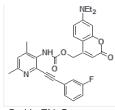
Chemical name (7-(diethylamino)-2-oxo-2H-chromen-4-yl)methyl

(2-((3-fluorophenyl)ethynyl)-4,6-dimethylpyidin-3-yl)carbamate

Molecular Weight 51

Chemical structure

513.57



Molecular Formula Source InChiKey Appearance C₃₀H₂₈FN₃O₄ Synthetic

XBUISHYVUXKBCO-UHFFFAOYSA-N

Yellow solid

References

Optical control of pain in vivo with a photoactive mGlu5 receptor negative allosteric modulator.

Font et al (2017) ELife pii: e23545.

PubMedID 28395733