

NADA, Endogenous TRPV1 activator

Catalog	Unit
TBI1479-5MG	5 mg
TBI1479-25MG	25 mg

Product Details

Formal Name: N-(5Z,8Z,11Z,14Z-eicosatetraenoyl)dopamine

Alternate Names: NADA; AA-DA; N-Arachidonoyldopamine

Molecular Formula: C₂₈H₄₁NO₃

Formula Weight: 439.63

CAS Number: 199875-69-9

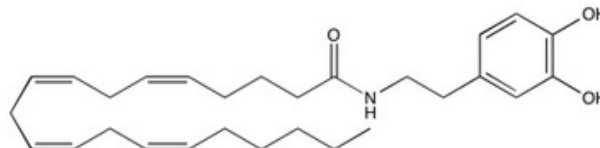
Purity: >98%

Formulation: oil

Solubility: Soluble in DMSO (up to 50 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Endogenous TRPV1 activator

Functions

Endogenous conjugate of arachidonic acid and dopamine. May be the “endogenous capsaicin like substance” in the CNS acting at TRPV1 channels, EC₅₀~ 50 nM. Also acts as a selective cannabinoid CB1 agonist (K_i=0.25 and 15 μM for CB1 and CB2 respectively) and results in a distinct signaling profile from any known cannabinoid. Competitive inhibitor of FAAH and anandamide transport. Modulates acute systemic inflammation via non-hematopoietic TRPV1.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml), then diluted to aqueous buffer. Subject to air oxidation Solutions in DMSO may be stored at -80° under an inert atmosphere for up to 1 month.

For research use only.