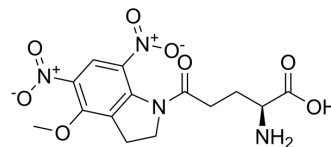


MDNI-caged-L-glutamate

Cat. No.:	HY-131039
CAS No.:	864085-92-7
Molecular Formula:	C ₁₄ H ₁₆ N ₄ O ₈
Molecular Weight:	368.3
Target:	Amino Acid Derivatives
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

MDNI-caged-L-glutamate (MDNI-glu) is a biologically inert, photosensitive derivative of the major excitatory amino acid, L-glutamate. MDNI-caged-L-glutamate makes more efficient use of incident light^[1].

REFERENCES

- [1]. Papageorgiou G, Ogden D, Kelly G, Corrie JE. Synthetic and photochemical studies of substituted 1-acyl-7-nitroindolines. *Photochem Photobiol Sci.* 2005;4(11):887-896.
- [2]. Morgante P, Guruge C, Ouedraogo YP, Nesnas N, Peverati R. Competition between cyclization and unusual Norrish type I and type II nitro-acyl migration pathways in the photouncaging of 1-acyl-7-nitroindoline revealed by computations. *Sci Rep.* 2021;11(1):1396.
- [3]. Olesya D Fedoryak, et al. Synthesis of a caged glutamate for efficient one- and two-photon photorelease on living cells. *Chem Commun (Camb).* 2005 Aug 7;(29):3664-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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