

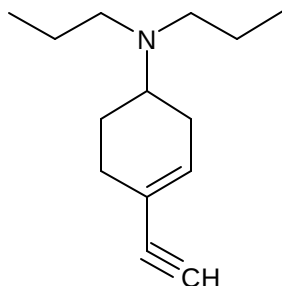
ProductInformation

FAUC 73

Product Number: **F 1041**

Storage Temperature: -20°C

Synonym: (4-ethynylcyclohex-3-enyl)dipropylamine



Product Description

Molecular Formula: C₁₄H₂₃N

Molecular Weight: 205.34 (anhydr.)

Dopamine receptors were initially divided into two general categories on the basis of differences in receptor pharmacology and biochemical mechanisms of signal transduction. With the application of molecular biology techniques, the two predominant dopamine receptors, D₁ and D₂, were cloned by several groups. Subsequently, additional dopamine receptors, with homology to either the D₁ or the D₂ receptor, were identified. Thus, two families of vertebrate dopamine receptors (designated as D₁-like and D₂-like) are recognized. The D₁-like family is composed of two distinct receptors (D₁ and D₅). The D₂-like family comprises three distinct receptors (D₂, D₃ and D₄). For any given receptor, some species-specific variations occur. Furthermore, a homolog of the D₁-like receptor occurs in at least one invertebrate species.

The availability of agonists and antagonists selective for a dopamine receptor subtype may allow physiological roles to be attributed to that specific subtype. Similarly, the identification of tissues enriched with a specific receptor subtype also facilitates ascribing various physiological functions to a given receptor subtype. Once this connection has been established, the experimental questions have usually focused on the biochemical mechanisms that link receptor and physiology. However, in complex tissues such as brain where multiple subtypes of dopamine receptors co-exist in the same region and sometimes on the same neuron, establishing a connection between a particular dopamine receptor and a physiological response is more difficult.

FAUC 73 is a selective, potent, nonaromatic agonist at D₃ dopamine receptors.

Preparation Instructions

Soluble in DMSO.

Storage/Stability

Store tightly sealed at -20°C.

References

1. Hubner, H., et al., J. Med. Chem., **43**, 756-762 (2000).
2. Missale, C. et al., Physiol. Rev., **78**, 189-225 (1998).
3. Baldessarini, R.J. and Tarazi, F.I., Harvard Rev. Psychiatry, **3**, 301-325 (1996).

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