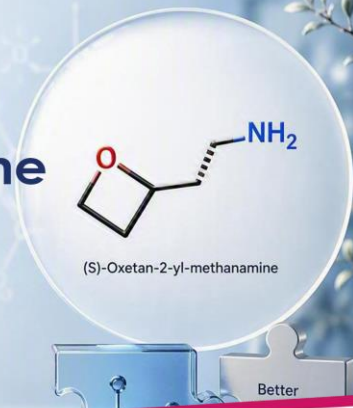


(S)-Oxetan-2-yl-methanamine

A CHIRAL OXETANE BUILDING BLOCK
FOR MODERN DRUG DISCOVERY



PRODUCT IN FOCUS

EXSYN[®]
ESSENTIAL CHEMISTRY

(S)-Oxetan-2-yl-methanamine

INTRODUCTION

(S)-Oxetan-2-yl-methanamine is a chiral oxetane-containing primary amine. The compound features a strained four-membered oxetane ring and an aminomethyl substituent, making it a valuable building block in modern medicinal chemistry. Due to its unique physicochemical properties, including increased polarity and metabolic stability compared with conventional alkyl groups, it is widely employed as an advanced pharmaceutical intermediate in drug discovery and development programs.

MANUFACTURE

(S)-Oxetan-2-yl-methanamine is typically manufactured through a stereoselective synthetic route starting from chiral oxetane precursors. The process generally involves preparation of an enantiomerically enriched oxetane intermediate, followed by functionalization of the ring with a nitrile, azide, or protected amine group and subsequent reduction or deprotection to yield the desired primary amine. Final purification is usually achieved by distillation or chromatographic techniques to obtain high chemical and enantiomeric purity suitable for pharmaceutical applications.

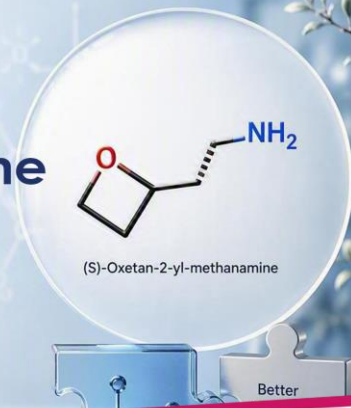
APPLICATIONS

- ❖ Pharmaceutical intermediate for the synthesis of small-molecule drug candidates.
- ❖ Building block in medicinal chemistry and lead optimization programs.
- ❖ Used in the development of kinase inhibitors, GPCR modulators, and CNS-active compounds.
- ❖ Valuable scaffold for introducing oxetane functionality to improve drug solubility and metabolic stability
- ❖ Intermediate in the synthesis of chiral active pharmaceutical ingredients (APIs).
- ❖ Research reagent for structure–activity relationship (SAR) studies and heterocyclic chemistry.

Synonyms	(S)-Oxetan-2-ylmethanamine.
CAS no.	2091328-57-1
EINECS no.	N/A
Molecular formula	C ₄ H ₉ NO
Molecular weight	87.12 g/mol
Structure	

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Yellowish liquid
Assay (By GC)	% w/w	Min. 98%

PACKING

25 kg drums

STORAGE

The material should be stored in a tightly sealed container under an inert atmosphere in a cool, dry, and well-ventilated area away from sources of heat and ignition. Recommended storage temperatures are typically 2–8°C for short-term storage or below –10°C for extended storage. Exposure to moisture, air, and direct light should be minimized to maintain product stability and purity.

REACH status

Not registered

ExSyn offers (S)-Oxetan-2-yl-methanamine on commercial scales and welcomes enquiries. Our exceptional quality and service will make ExSyn your supplier of choice! If you need additional information or SDS, please contact us.