PRODUCT INFORMATION



Gabapentin lactam

Item No. 43246

CAS Registry No.: 64744-50-9

Formal Name: 2-azaspiro[4.5]decan-3-one

MF: C₉H₁₅NO FW: 153.2 **Purity:** ≥98% Supplied as: A neat solid -20°C Storage: Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Gabapentin lactam (Item No. 43246) is an analytical reference standard categorized as a degradation product of gabapentin.^{1,2} Gabapentin lactam is a potential impurity in gabapentin preparations.¹ It has convulsant activity in rats.³ This product is intended for research and forensic applications.

References

- 1. Ciavarella, A.B., Gupta, A., Sayeed, V.A., et al. Development and application of a validated HPLC method for the determination of gabapentin and its major degradation impurity in drug products. J. Pharm. Biomed. Anal. 43(5), 1647-1653 (2007).
- 2. He, Y., Jia, D., Du, S., et al. Toxicity of gabapentin-lactam on the early developmental stage of zebrafish (Danio rerio). Environ. Pollut. 287, 117649 (2021).
- 3. Potschka, H., Feuerstein, T.J., and Löscher, W. Gabapentin-lactam, a close analogue of the anticonvulsant gabapentin, exerts convulsant activity in amygdala kindled rats. Naunyn Schmiedebergs Arch. Pharmacol. 361(2), 200-205 (2000).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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