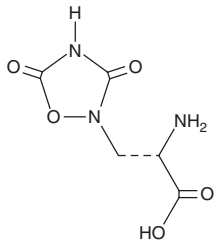
PRODUCT INFORMATION

L-Quisqualic Acid

Item No. 20211

CAS Registry No.:	52809-07-1
Formal Name:	αS-amino-3,5-dioxo-1,2,4-oxadiazolidine-2-propanoic acid
MF:	$C_5H_7N_3O_5$
FW:	189.1
Purity:	≥99%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

L-Quisqualic acid is supplied as a solid. The solubility of L-quisqualic acid in water is approximately 25mM. We do not recommend storing the aqueous solution for more than one day.

Description

L-Quisqualic acid is a natural analog of glutamate that acts as an agonist at AMPA-selective and metabotropic glutamate receptors (EC_{50}s = 170, 10, 40, and 29 nM at GluR-A, mGluR1, mGluR3, and mGluR5, respectively), as well as the ionotropic kainate receptor (GRIK4; K_i = 6.43 nM).[1-6] L-Quisqualic acid is used to study receptor dynamics and as an excitotoxin to selectively destroy neurons in the brain or spinal cord.[7,8]

References

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