



DNA Aptamer against Glutamate

SKU# APT-032: DNA Aptamer against Glutamate

Background

Glutamate is an amino acid and neurotransmitter that plays a key role in brain function and other physiological processes. Glutamate is the most abundant excitatory neurotransmitter in the brain, meaning it stimulates nerve cells and helps chemical messages continue to pass between them. Glutamate receptors are found in neurons and glia throughout the brain and spinal cord.

Aptamer type: DNA aptamer

Aptamer length: 39 bp

Affinity KD: 12 \pm 6 μ M

Kit contents

The following components are included in the Kit.

| | Component | Quantity |
|------------|---------------------------------------|----------|
| APT-032-10 | Single strand DNA, lyophilized powder | 10 nmol |
| APT-032-30 | Single strand DNA, lyophilized powder | 30 nmol |

- Store at -20°; reagents are guaranteed stable for 12 months when properly stored.

References

Wu, C., Barkova, D., Komarova, N. et al. Highly selective and sensitive detection of glutamate by an electrochemical aptasensor. *Anal Bioanal Chem* 2022, 414: 1609–1622.