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# 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:** 98 bp

**Affinity KD:** 12  $\pm$ 6  $\mu$ 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

Grozio, A., et al., Selection and characterization of single stranded DNA aptamers for the hormone abscisic acid, *Nucleic Acid Therapeut.* 2013, 23: 322–331.