Target information

Cortisol is a steroid hormone, in the glucocorticoid class of hormones. It is produced in many animals, mainly by the zona fasciculata of the adrenal cortex in the adrenal gland. It is produced in other tissues in lower quantities. It is released with a diurnal cycle and its release is increased in response to stress and low blood-glucose concentration. It functions to increase blood sugar through gluconeogenesis, to suppress the immune system, and to aid in the metabolism of fat, protein, and carbohydrates. It also decreases bone formation.

Cortisol Optimer® shows quantifiable range covering clinical concentration

Optimer® binders show broad dynamic range for cortisol by ELISA-like assay, to enable sensitive, reliable hormone detection and monitoring.

<table>
<thead>
<tr>
<th>Cortisol quantifiable range</th>
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<td>LLOQ</td>
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<td>ULOQ</td>
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Optimer® binders

Optimer® binders are small oligonucleotide ligands (~15kDa) that bind to target molecules with comparable specificity and affinity to that of antibodies. These synthetic affinity ligands are designed to mimic the molecular recognition characteristics of monoclonal antibodies in different applications.

Intended for research use only. Not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

The Optimer® advantage

Optimer® binders are oligonucleotide affinity ligands that offer several key benefits over traditional protein-based affinity reagents.

- Batch consistent manufacture
- Rapid discovery & development
- Animal-free discovery, development & manufacture
- Highly stable with long shelf life
- Security of supply from defined Optimer® sequence
- Small size for improved signal:noise & tissue penetration

Flexible functionalisation for assay compatibility

Optimer® binders can be modified with a wide variety of functional groups for simple platform integration. Please enquire for more information.

For custom modifications specific for your research, or more details about how Optimer® binders can be utilized in your research, please get in touch via email at info@aptamergroup.com.